JOURNAL OF ELECTROANALYTICAL CHEMISTRY AND INTERFACIAL ELECTROCHEMISTRY

Vol. 304 Nos. 1 and 2 10 April 1991

CONTENTS

Conducting polymer based electrochemical sensors: theoretical analysis of current response under steady state conditions
M.E.G. Lyons (Dublin, Ireland), P.N. Bartlett (Coventry, UK), C.H. Lyons, W. Breen and J.F. Cassidy (Dublin, Ireland) 1

Bioelectrochemical responses of the polyaniline glucose oxidase electrode
S. Mu, H. Xue and B. Qian (Yangzhou, China) 7

Cyclic and linear sweep voltammetry at tubular electrodes. Part V. Kinetic processes
T. Singh (Ludhiana, India), J. Dutt and S. Kaur (Chandigarh, India) 17

Impedance spectroscopy of an ideally polarizable electrode
B.M. Grafov and V.V. Elkin (Moscow, USSR) 31

Two-dimensional phase formation by heterocoalescence of a surface active droplet at the aqueous / mercury interface
V. Svetličić and J. Tomaić (Zagreb, Yugoslavia) 41

Reaction between pyridoxal and hexylamine. Electrochemical and spectrophotometric studies on the Schiff base formation
T. Pineda, J.M. Sevilla, M. Blazquez (Córdoba, Spain), F. Garcia-Blanco (Madrid, Spain) and M. Dominguez (Seville, Spain) 53

Substituent effects on the reaction kinetics of electrogenerated 9-substituted 10-phenylanthracene cation radicals with water and methanol
M. Oyama, K. Nozaki and S. Okazaki (Kyoto, Japan) 61

Electrochemical oxidation and reduction of PQQ using a conducting polypyrrole-coated electrode
H. Shinohara, G.F. Khan, Y. Ikariyama and M. Aizawa (Tokyo, Japan) 75

Kinetics of the oxygen electrode reaction in molten Li + Na carbonate eutectic. Part 1. Linear voltammetric and chronoamperometric data for the reduction processes at Au electrodes
P. Tomczyk and G. Mordarski (Cracow, Poland) 85

Kinetics of the oxygen electrode reaction in molten Li + Na carbonate eutectic. Part 2. Theory of linear scan voltammetry and potential-step chronamperometry for the reaction $m\ O + n\ e^- \rightleftharpoons q\ R$ initially at equilibrium
L.K. Bieniasz (Cracow, Poland) 101

Kinetics of the oxygen electrode reaction in molten Li + Na carbonate eutectic. Part 3. Quantitative analysis of the linear scan voltammetric curves for the first reduction process at Au electrodes
P. Tomczyk and L.K. Bieniasz (Cracow, Poland) 111

Kinetics of the oxygen electrode reaction in molten Li + Na carbonate eutectic. Part 4. Quantitative analysis of the potential-step chronamperometric curves at Au electrodes
G. Mordarski (Cracow, Poland) 123

Mechanistic studies of the electrohydrodimerization of acrylonitrile
P.J. Kinlen (St. Louis, MO, USA) and C.J.H. King (Pensacola, FL, USA) 133

Electroinitiated polymerization of acrylamide in DMF. Attempts at an interfacial model
T.F. Otero and A. Marijuán (San Sebastian, Spain) 153

Polarization behaviour of a cobalt rotating disc electrode in sulphuric acid solutions in the absence and presence of chloride ions
D. Sazou and M. Pagitsas (Thessaloniki, Greece) 171

The adsorption behaviour of n-butanol at a free surface of formamide
E. Przyłuska and J. Jastrzębska (Warsaw, Poland) 187

Adsorption of pyridine on the (210) face of silver
A. Hamelin (Meudon, France), S. Morin, J. Richer and J. Lipkowski (Guelph, Canada) 195

(continued on p. 3 of cover)

Contents (*continued*)

A direct and indirect radiotracer study of the adsorption of serine at a platinized platinum electrode
G. Horányi (Budapest, Hungary) 211

SNIFTIRS study of the behaviour of the spectrum of carbon monoxide adsorbed on a platinum electrode in alcoholic solvents
A.E. Russell, D. Blackwood, M.R. Anderson and S. Pons (Salt Lake City, UT, USA) 219

Short communications

The influence of carbon monoxide on hydrogen absorption by thin films of palladium
A. Czerwiński (Warsaw, Poland), S. Zamponi and R. Marassi (Camerino, Italy) 233

Anodic oxidation of some tertiary amines
D. Larumbe, I. Gallardo (Bellaterra, Spain) and C.P. Andrieux (Paris, France) 241

Voltammetry of silver(I) using a carbon-paste electrode modified with 2,2′-dithiodipyridine
K. Sugawara, S. Tanaka and M. Taga (Sapporo, Japan) 249

Preliminary notes

Two-component diffusion and reaction in rotating disk voltammetry. Can fast kinetics force equilibration in the diffusion layer?
J. Texter (Rochester, NY, USA) 257

Electrodes modified with cobalt hexacyanoferrate
J. Joseph, H. Gomathi and G. Prabhakara Rao (Karaikudi, India) 263

Helium production during the electrolysis in D_2O in cold fusion experiments
B.F. Bush, J.J. Lagowski (Austin, TX, USA), M.H. Miles and G.S. Ostrom (China Lake, CA, USA) 271

The observation of tritium in the electrolysis of D_2O at palladium sheet cathodes
G. Mengoli, M. Fabrizio, C. Manduchi, G. Zannoni, L. Riccardi, F. Veronese and A. Buffa (Padua, Italy) 279

Effect of curing-humidity on recast-Nafion films
K.A. Striebel, G.G. Scherer and O. Haas (Villigen, Switzerland) 289

Author index 297

Subject index 298

Erratum 303

JOURNAL OF ELECTROANALYTICAL CHEMISTRY AND INTERFACIAL ELECTROCHEMISTRY and BIOELECTROCHEMISTRY AND BIOENERGETICS

Publication schedule for 1991 (please note that Vol. 297, belonging to the 1990 subscription, appeared in 1991)

Month	J	F	M	A	M	J	
J. Electroanal. Chem.	297/1 297/2	300/ 1+2 301/ 1+2	302/ 1+2 303/ 1+2	304/ 1+2 305/1	305/2 306/ 1+2	307/ 1+2 308/ 1+2	The publication schedule for further issues will be published later.
Bioelectrochem. Bioenerg.		320/1 (25/1)		320/2 (25/2)		320/3 (25/3)	